

Rishab Thapliyal

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SUMMARY

Full Stack Developer with expertise in Next.js, TypeScript, PostgreSQL, and scalable REST APIs. Experienced in building production-grade systems with real authentication (NextAuth.js, JWT, bcrypt), immutable data architectures, and session-based API authorization. Solved 900+ LeetCode problems with strong foundations in Data Structures and Algorithms. Passionate about clean code, system design, and solving real-world engineering challenges.

EDUCATION

Graphic Era Hill University <i>Bachelor of Technology, Computer Science and Engineering (CGPA: 8.15/10)</i>	Dehradun, India 2021 – 2025
Shri Guru Ram Rai Public School <i>Intermediate (12th CBSE) (86.5%)</i>	Dehradun, India 2021
Shri Guru Ram Rai Public School <i>Matriculation (10th CBSE) (80.0%)</i>	Dehradun, India 2019

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, C++, Python (working knowledge), SQL, HTML5, CSS3
Frontend: Next.js, React.js, Tailwind CSS, Redux Toolkit, RTK Query
Backend & DB: Node.js, PostgreSQL, Prisma ORM, REST APIs, Zod (Validation)
Auth: NextAuth.js v5 (JWT strategy), bcryptjs, Session-based API Authorization, Role-based Access Control
Tools & Concepts: Git, GitHub, Vercel, Netlify, Vitest, DSA, Immutable Architecture

PROJECTS

Leave & Attendance Management System Jan 2026 – Mar 2026
Next.js, TypeScript, PostgreSQL, Prisma, NextAuth.js, Redux Toolkit, RTK Query, Zod, Vitest [Live](#) | [GitHub](#)

- Implemented **end-to-end authentication** using **NextAuth.js v5** with JWT sessions and **bcrypt** password hashing; secured all API routes with session-based authorization and **role-based access control** (EMPLOYEE / MANAGER / ADMIN).
- Engineered a **server-side rule engine** using **Zod** to enforce complex business logic (month locking, half-day constraints, leave+WFH conflict) returning typed `{allowed, reason, statusCode}`.
- Designed an **immutable event architecture** using a cancel-and-recreate strategy with override tracking and full audit logging, ensuring 100% data integrity and payroll-grade auditability.
- Integrated **FullCalendar** with **RTK Query** for automatic cache invalidation — UI updates instantly after every mutation with zero manual refresh logic.

Media Search App Dec 2025 – Jan 2026
Next.js, JavaScript, Redux Toolkit, Tailwind CSS, Unsplash API, Pexels API, Giphy API [Live](#) | [GitHub](#)

- Integrated **3 third-party APIs** (Unsplash, Pexels, Giphy) into a unified search interface for photos, videos, and GIFs with tab-based result switching.
- Implemented **paginated infinite scroll** with Redux `appendResults` and built a persistent collection system using **local-Storage hydration** on Redux store mount.

Video Scene Classification System Nov 2024 – Apr 2025
React.js, Python, Flask, CLIP, Sentence Transformers, OpenCV [GitHub](#)

- Developed an AI-powered video analysis tool using **CLIP** and **Sentence Transformers** to enable natural language semantic search within video content.
- Built a **Flask** backend to process video frames via **OpenCV** and integrate multi-modal NLP models with a React.js frontend for real-time scene navigation.

EXPERIENCE

OctaNet Services Pvt. Ltd. Remote
Web Development Intern Sep 2023 – Oct 2023

- Developed and deployed 5+ responsive web pages using **HTML5, CSS3, and JavaScript**, achieving cross-browser compatibility across Chrome, Firefox, and Edge.
- Optimized UI component rendering to improve page load performance and maintained codebase with structured **Git** branching and version control workflows.

ACHIEVEMENTS & CERTIFICATIONS

- LeetCode:** Solved **900+** DSA problems with focus on arrays, trees, graphs, dynamic programming, and system design patterns.
- Hackathon:** Built a fully working product prototype under a 24-hour time constraint at a college-level hackathon.
- Certification:** Introduction to Cloud Computing – IaaS, PaaS, SaaS, and deployment models (IBM / Coursera).
- Certification:** Machine Learning Foundations – supervised/unsupervised learning, model evaluation (University of Washington / Coursera).